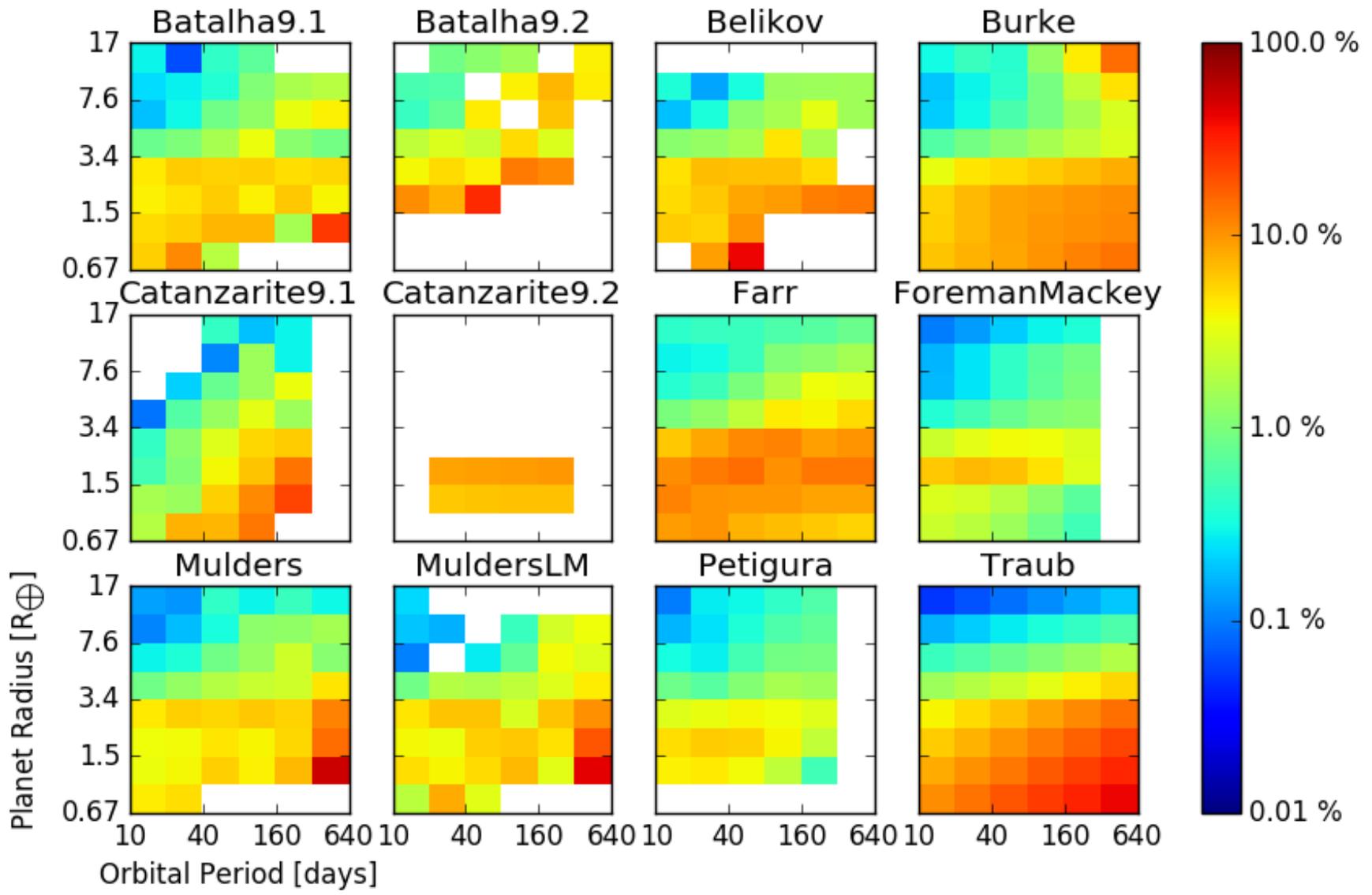
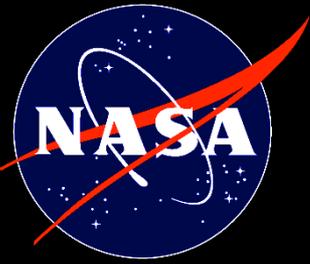


NASA Example: submitted occurrence rates for G-dwarfs



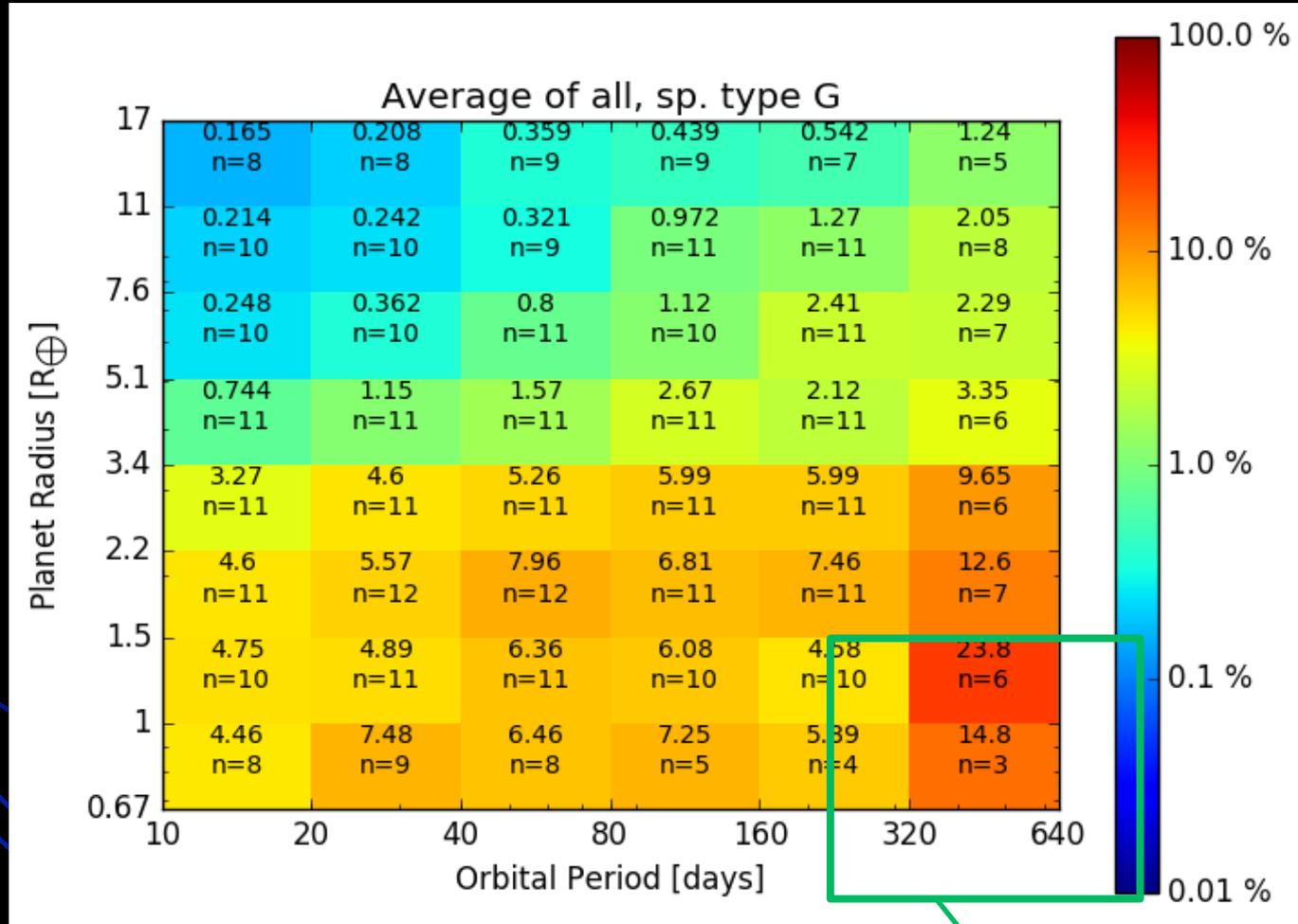


Closer look at G-dwarf average

legend

% occurrence

of submissions



Note: this is a simple average across submissions
 More sophisticated combination methods are being explored, such as weighting by quoted uncertainties and/or accounting for dependencies

$\eta_{\text{habSol,SAG13}} \sim 0.58$
 (based on best power law fit)

Plots and analysis are generated with the make_plots.py script
 in the SAG13 Google drive, code by Gijs Mulders.



Calculations of habitable occurrence rates

Integrating SAG13 parametric fit

		HZ (from Kopparapu 2013)	
		Conservative	Optimistic
Planet radius range	1.0-1.5	0.14	0.20
	0.5-1.5	0.40	0.58

Integrating Burke et al. 2015 parametric fit

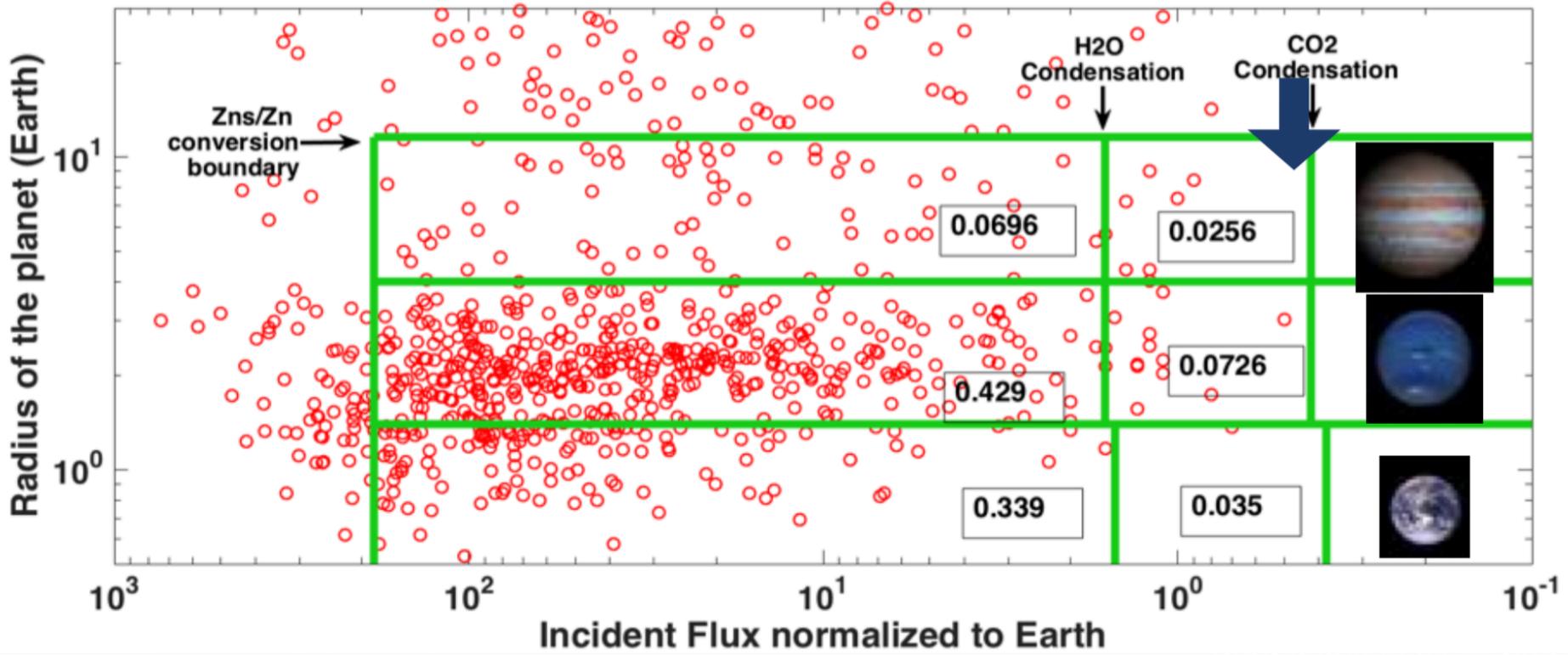
		HZ (from Kopparapu 2013)	
		Conservative	Optimistic
Planet radius range	1.0-1.5	0.21	0.30
	0.5-1.5	0.69	1.0

$\eta_{\text{habSol,SAG13}}$



1. STDTs will want yields of multiple planet "types." Need to define the boundaries of planet types in radius and semi-major axis (including scaling with stellar type).

Suggestion:



Keppeler et al. (in prep)